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 catggaaaca aatgatatgc aaatactgnt tccatatgct actgcactta agaagttaga 420
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 tctggaaacc ttagaggtga gggatgtcat aggggatcgg ggactacaag ntggtgacaca 540
 gacctgcaag aaattgcata ggctcagagt agagagagga gatgatgatc nagaggtctt 600
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<210> 2
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 <213> Zea mays

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 <222> (128)

<220>
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 <222> (150)

<220>
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Glu Asn Asp Glu Trp Ile Arg Glu Leu Ala Thr Ser Asn Ser Val Leu
 20 25 30

Glu Thr Leu Asn Phe Phe Leu Thr Asp Leu Arg Ala Ser Pro Glu Tyr
 35 40 45

Leu Thr Leu Leu Val Arg Asn Cys Gln Arg Leu Lys Thr Leu Lys Ile
 50 55 60

Ser Glu Cys Phe Met Pro Asp Leu Val Ser Leu Phe Arg Thr Ala Gln
 65 70 75 80

Thr Leu Gln Glu Phe Ala Gly Ser Phe Glu Glu Gln Gly Gln Pro
 85 90 95

Val Ala Ser Arg Asn Tyr Glu Asn Tyr Tyr Phe Pro Pro Ser Leu His
 100 105 110

Arg Leu Ser Leu Leu Tyr Met Gly Thr Asn Asp Met Gln Ile Leu Xaa
 115 120 125

Pro Tyr Ala Thr Ala Leu Lys Lys Leu Asp Leu Gln Phe Thr Phe Leu
 130 135 140

Ser Thr Glu Asp His Xaa Gln Ile Val Gln Arg Cys Ser Asn Leu Glu
 145 150 155 160

Thr Leu Glu Val Arg Asp Val Ile Gly Asp Arg Gly Leu Gln Xaa Gly
 165 170 175

Ala Gln Thr Cys Lys Lys Leu His Arg Leu Arg Val Glu Arg Gly Asp
 180 185 190

Asp Asp

<210> 3
 <211> 844
 <212> DNA
 <213> Oryza sativa

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 <211> 236
 <212> PRT
 <213> Oryza sativa

<220>
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 <222> (115)

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Gly Val Val Ala Asp Thr Cys Lys Lys Leu Gln Arg Leu Arg Val Glu
 20 25 30

Arg Gly Asp Asp Asp Pro Gly Leu Gln Glu Glu Gln Gly Gly Val Ser
 35 40 45

Gln Val Gly Leu Thr Thr Val Ala Val Gly Cys Arg Glu Leu Glu Tyr
 50 55 60

Ile Ala Ala Tyr Val Ser Asp Ile Thr Asn Gly Ala Leu Glu Ser Ile
 65 70 75 80

Gly Thr Phe Cys Lys Asn Leu Cys Asp Phe Arg Leu Val Leu Leu Asp
85 90 95

Arg Glu Glu Arg Ile Thr Asp Leu Pro Leu Asp Asn Gly Val Arg Ala
100 105 110

Leu Leu Xaa Gly Cys Thr Lys Leu Arg Arg Phe Ala Leu Tyr Leu Arg
115 120 125

Pro Gly Gly Leu Ser Asp Thr Gly Leu Gly Tyr Ile Gly Gln Tyr Ser
130 135 140

Gly Ile Ile Gln Tyr Met Leu Leu Gly Asn Val Gly Glu Thr Asp Asp
145 150 155 160

Gly Leu Ile Arg Phe Ala Leu Gly Cys Glu Asn Leu Arg Lys Leu Glu
165 170 175

Leu Arg Ser Cys Cys Phe Ser Glu Gln Ala Leu Ala Arg Ala Ile Arg
180 185 190

Ser Met Pro Ser Leu Arg Tyr Val Trp Val Gln Gly Tyr Lys Ala Ser
195 200 205

Lys Thr Gly His Asp Leu Met Leu Met Ala Arg Pro Phe Trp Asn Ile
210 215 220

Glu Phe Thr Pro Pro Arg Arg Leu Val Thr Ile Ser
225 230 235

<210> 5

<211> 482

<212> DNA

<213> Glycine max

<400> 5

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ccgcaaggcac gtcaccatcg cgctctgcta caccaccacc cccgctcgcc tccggccggcc 180
cttcccgcac ctcgagtcgc tcaagctcaa gggcaagcccc cgagccgcaa tgttcaactt 240
gatacccgag gattggggcg gacacgtcac tccctgggtc aaagagattt ctcaagtact 300
tcgattgcct caagagcctc cacttccgccc gcatgattgt caaggatgtc cgatcttcag 360
aatctcgctc gtgaccgcgg tcacgtgctt cacgctctca aagcttgaca agtgcctccgg 420
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<211> 108

<212> PRT

<213> Glycine max

<220>

<221> UNSURE

<222> (97)

<400> 6

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Asp Arg Asp Ala Val Ser Gln Val Cys Arg Arg Trp Tyr Glu Leu Asp
20 25 30

Ser Leu Thr Arg Lys His Val Thr Ile Ala Leu Cys Tyr Thr Thr Thr
35 40 45

Pro Ala Arg Leu Arg Arg Arg Phe Pro His Leu Glu Ser Leu Lys Leu
50 55 60

Lys Gly Lys Pro Arg Ala Ala Met Phe Asn Leu Ile Pro Glu Asp Trp
65 70 75 80

Gly Gly His Val Thr Pro Trp Val Lys Glu Ile Ser Gln Val Leu Arg
85 90 95

Xaa Leu Lys Ser Leu His Phe Arg Arg Met Ile Val
100 105

<210> 7

<211> 794

<212> DNA

<213> Triticum aestivum

<220>

<221> unsure

<222> (270)

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<221> unsure

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 ggagctctat cagatattgg cctttcttan gttgggcgaa tttagcaaga cctgtccgcta 300
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 cccaaagcttg cagaaattgg agctaaggag ttgctgctt agtgaacgtg cattggcagt 420
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 aaatcaagat ggccttgcc cagagggtca gacagatggt ggcatactac tctctggctt 600
 ggaaggcaga ttgtccttagt cagattcccc tccatcgtag tgggagctaa aagaccacca 660
 ccagtttact gacancatgt tgatgcagna accacatgg anaggaattc actacagtgc 720
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 gtnantgcan agna 794

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 <212> PRT
 <213> Triticum aestivum

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 <222> (89)

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 Val His Val Ser Asp Ile Thr Asn Ala Ala Leu Glu Ala Ile Gly Ala
 20 25 30

Phe Ser Lys Asn Leu Asn Asp Phe Arg Leu Val Leu Leu Asp Arg Glu
 35 40 45
 Val His Ile Thr Glu Leu Pro Leu Asp Asn Gly Val Arg Ala Leu Leu
 50 55 60
 Arg Gly Cys Thr Lys Leu Arg Arg Phe Ala Phe Tyr Val Arg Pro Gly
 65 70 75 80
 Ala Leu Ser Asp Leu Ala Phe Leu Xaa Leu Gly Glu Phe Ser Lys Thr
 85 90 95
 Val Arg Tyr Met Leu Leu Gly Asn Ala Gly Gly Ser Asp Asp Gly Leu
 100 105 110
 Leu Ala Phe Ala Arg Xaa Cys Pro Ser Leu Gln Lys Leu Glu Leu Arg
 115 120 125
 Ser Cys Cys Phe Ser Glu Arg Ala Leu Ala Val Ala Leu Gln Leu
 130 135 140
 Lys Ser Leu Arg Tyr Leu Trp Val Gln Gly Tyr Lys Ala Ser Pro Thr
 145 150 155 160
 Gly Thr Asp Leu Met Ala Met Val Arg Pro Phe Trp Asn Ile Glu Phe
 165 170 175

Ile

<210> 9
 <211> 426
 <212> DNA
 <213> Oryza sativa

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 ttaccgaagg agtttggaga tcctgcgttc tccacgggtga ccatccagag ggatctgtac 180
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 cacaagggtca ctgggtcgaa gagatcgaan caagcctttt gccaattcaa gaatgggaat 300
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 atnaga 426

<210> 10
 <211> 107
 <212> PRT
 <213> Oryza sativa

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 <222> (90)

<400> 10
 Ala Val Arg Ser Pro Lys Ala Cys Ala Ile Lys Phe Pro Thr Leu Val
 1 5 10 15

Ser Gln Gly Leu Leu Phe Val Trp Pro Asp Glu Asn Gly Trp Glu Lys
 20 25 30

Ala Thr Ala Thr Lys Pro Pro Met Leu Pro Lys Glu Phe Glu Asp Pro
 35 40 45

Ala Phe Ser Thr Val Thr Ile Gln Arg Asp Leu Tyr Tyr Gly Tyr Asp
 50 55 60

Thr Leu Met Glu Asn Val Ser Asp Pro Ser His Ile Glu Phe Ala His
 65 70 75 80

His Lys Val Thr Gly Ser Lys Arg Ser Xaa Gln Ala Phe Cys Gln Phe
 85 90 95

Lys Asn Gly Asn Gln Ser Trp Cys Asn Gly Gly
 100 105

<210> 11
 <211> 465
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (460)

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 caattttaa ccaaacaacac gcgacccaga agcagaagaa acctctccct aaccctcgaa 180
 cgcgttgcgg cgccaccctc aacgggtgaa gccgatcgat tataccca ggcggaaaat 240
 aacgaaactg aggaagagtt tagcgacgag agcttccct ctaaattcac ttggagggat 300
 cactggtacc ctgtctcggt aattgaagat ctgaaccctc tcttgcac accgttcag 360
 ctctgggtc gtgaaatcggtac gctctggtac gacaagtcca ttcccatacg gggtgcttt 420
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<210> 12
 <211> 66
 <212> PRT
 <213> Glycine max

<220>
 <221> UNSURE
 <222> (65)

<400> 12
 Glu Ser Ser Ser Ser Lys Phe Thr Trp Arg Asp His Trp Tyr Pro Val
 1 5 10 15

Ser Leu Ile Glu Asp Leu Asn Pro Leu Leu Pro Thr Pro Phe Gln Leu
 20 25 30

Leu Gly Arg Glu Ile Val Leu Trp Tyr Asp Lys Ser Ile Ser Gln Trp
 35 40 45

Val Ala Phe Asp Asp Lys Cys Pro His Arg Leu Ala Pro Leu Ser Glu
 50 55 60

Xaa Arg
 65

<210> 13
 <211> 558
 <212> DNA
 <213> Triticum aestivum

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atttgctcac cacaagggtca ctggacnaag agatanagcc aagcctttgc catttaaaat 240
ggaatcaant ggncatggg gatattcang ggc当地atacc ggcaatcctc gc当地actgc 300
aactttcgan gccccttggc tatgcactgn aacanaattn agattgacac caaattaacc 360
gattnntggga gatcacaat gggctntatg gatttgctcc tt当地anattc caaaggccc 420
aggaaaatcg ttcttattgtc cgtantgctc naaactttc antttaaatn ccacnaagga 480
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tcagncacaa agttccgt 558

<210> 14
<211> 105
<212> PRT
<213> Triticum aestivum

<220>
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<222> (69)

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<220>
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<400> 14
Gln Gly Leu Leu Phe Val Trp Pro Asp Glu Asn Gly Trp Asp Lys Ala
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Lys Ala Thr Lys Pro Pro Met Leu Pro Lys Glu Phe Asp Asp Pro Ala
20 25 30

Phe Ser Thr Val Thr Ile Gln Arg Asp Leu Phe Tyr Gly Tyr Asp Thr
35 40 45

Leu Met Glu Asn Val Ser Asp Pro Ser His Ile Glu Phe Ala His His
50 55 60

Lys Val Thr Gly Xaa Arg Asp Xaa Ala Lys Pro Leu Pro Phe Lys Met
65 70 75 80

Glu Ser Xaa Gly Xaa Trp Gly Tyr Ser Xaa Ala Asn Thr Gly Asn Pro
85 90 95

Arg Xaa Thr Ala Thr Phe Xaa Ala Pro
100 105

<210> 15
<211> 562
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (136)

<220>
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 ttccctggaaat aatgtntaat tgccgatgaa gggagcgaat ggctccatgactcgccgtc 180
 aacaattctg ttctgggtgac actgaacttc tacatgacag aactcaaagt ggagcctgccc 240
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 gcgctttttt cgaaatcgga gagtacacca agtacgaaaa ggtcaagtc ccacctaagc 420
 tatgcttctt ggggggtctt accttcatgg gtaaaaaacga gatgcccgtt aatcttccg 480
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<210> 16

<211> 186

<212> PRT

<213> Zea mays

<220>

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<222> (46)

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<222> (111)

<400> 16

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								20		25			30		

Ser	Cys	Arg	Ser	Leu	Arg	Thr	Leu	Phe	Leu	Glu	Glu	Cys	Xaa	Ile	Ala
				35					40			45			

Asp	Glu	Gly	Ser	Glu	Trp	Leu	His	Glu	Leu	Ala	Val	Asn	Asn	Ser	Val
					50		55				60				

Leu	Val	Thr	Leu	Asn	Phe	Tyr	Met	Thr	Glu	Leu	Lys	Val	Glu	Pro	Ala
	65				70			75				80			

Asp	Leu	Glu	Leu	Leu	Ala	Arg	Asn	Cys	Lys	Ser	Leu	Ile	Ser	Leu	Lys
					85				90			95			

Met	Ser	Asp	Cys	Asp	Leu	Ser	Asp	Leu	Met	Val	Phe	Ser	Lys	Xaa	Ser
					100				105			110			

Lys	Ala	Leu	Gln	Glu	Phe	Ala	Gly	Gly	Ala	Phe	Phe	Glu	Ile	Gly	Glu
			115				120					125			

Tyr	Thr	Lys	Tyr	Glu	Lys	Val	Lys	Leu	Pro	Pro	Lys	Leu	Cys	Phe	Leu
			130			135			140						

Gly	Gly	Leu	Thr	Phe	Met	Gly	Lys	Asn	Glu	Met	Pro	Val	Asn	Leu	Ser
					145			150		155			160		

Val	Phe	Cys	Val	Arg	Leu	Arg	Asn	Trp	Thr	Cys	Ser	Thr	Leu	Ser	Leu
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180 185

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<211> 1728
<212> DNA
<213> Zea mays

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<210> 18
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<212> PRT
<213> Zea mays

<400> 18
Thr Arg Pro Arg Thr Arg Gly Leu Glu Thr Leu Phe Leu Glu Glu Ser
1 5 10 15

Thr Ile Asp Glu Lys Glu Asn Asp Glu Trp Ile Arg Glu Leu Ala Thr
20 25 30

Ser Asn Ser Val Leu Glu Thr Leu Asn Phe Phe Leu Thr Asp Leu Arg
35 40 45

Ala Ser Pro Glu Tyr Leu Thr Leu Leu Val Arg Asn Cys Gln Arg Leu
50 55 60

Lys Thr Leu Lys Ile Ser Glu Cys Phe Met Pro Asp Leu Val Ser Leu
65 70 75 80

Phe	Arg	Thr	Ala	Gln	Thr	Leu	Gln	Glu	Phe	Ala	Gly	Gly	Ser	Phe	Glu
														95	
85															
Glu	Gln	Gly	Gln	Pro	Val	Ala	Ser	Arg	Asn	Tyr	Glu	Asn	Tyr	Tyr	Phe
														110	
100															
Pro	Pro	Ser	Leu	His	Arg	Leu	Ser	Leu	Leu	Tyr	Met	Gly	Thr	Asn	Asp
														125	
115															
Met	Gln	Ile	Leu	Phe	Pro	Tyr	Ala	Thr	Ala	Leu	Lys	Lys	Leu	Asp	Leu
														140	
130															
Gln	Phe	Thr	Phe	Leu	Ser	Thr	Glu	Asp	His	Cys	Gln	Ile	Val	Gln	Arg
														160	
145															
Cys	Ser	Asn	Leu	Glu	Thr	Leu	Glu	Val	Arg	Asp	Val	Ile	Gly	Asp	Arg
														175	
165															
Gly	Leu	Gln	Val	Val	Ala	Gln	Thr	Cys	Lys	Lys	Leu	His	Arg	Leu	Arg
														190	
180															
Val	Glu	Arg	Gly	Asp	Asp	Asp	Gln	Gly	Gly	Leu	Glu	Asp	Glu	Gln	Gly
														205	
195															
Arg	Ile	Ser	Gln	Val	Gly	Leu	Met	Ala	Ile	Ala	Gln	Gly	Cys	Pro	Glu
														220	
210															
Leu	Thr	Tyr	Trp	Ala	Ile	His	Val	Ser	Asp	Ile	Thr	Asn	Ala	Ala	Leu
														240	
225															
Glu	Ala	Val	Gly	Thr	Cys	Ser	Lys	Asn	Leu	Asn	Asp	Phe	Arg	Leu	Val
														255	
245															
Leu	Leu	Asp	Arg	Glu	Ala	His	Ile	Thr	Glu	Leu	Pro	Leu	Asp	Asn	Gly
														270	
260															
Val	Arg	Ala	Leu	Leu	Arg	Gly	Cys	Thr	Lys	Leu	Arg	Arg	Phe	Ala	Phe
														285	
275															
Tyr	Val	Arg	Pro	Gly	Ala	Leu	Ser	Asp	Val	Gly	Leu	Gly	Tyr	Val	Gly
														300	
290															
Glu	Phe	Ser	Lys	Ser	Ile	Arg	Tyr	Met	Leu	Leu	Gly	Asn	Val	Gly	Glu
														320	
305															
Ser	Asp	Asn	Gly	Ile	Ile	Gln	Leu	Ser	Lys	Gly	Cys	Pro	Ser	Leu	Gln
														335	
325															
Lys	Leu	Glu	Val	Arg	Gly	Cys	Leu	Phe	Ser	Glu	His	Ala	Leu	Ala	Leu
														350	
340															
Ala	Ala	Leu	Gln	Leu	Lys	Ser	Leu	Arg	Tyr	Leu	Trp	Val	Gln	Gly	Phe
														365	
355															
Arg	Ser	Ser	Pro	Thr	Gly	Thr	Asp	Ile	Met	Ala	Met	Val	Arg	Pro	Phe
														380	
370															
Trp	Asn	Ile	Glu	Tyr	Ile	Val	Pro	Asp	Gln	Asp	Glu	Pro	Cys	Pro	Glu
														400	
385															
390															
395															

His Lys Arg Gln Ile Leu Ala Tyr Tyr Ser Leu Ala Gly Arg Arg Thr
 405 410 415

Asp Cys Pro Pro Ser Val Thr Leu Leu Tyr Pro Ala Phe
 420 425

<210> 19
 <211> 2240
 <212> DNA
 <213> Oryza sativa

<400> 19
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 caccaccaggc agcagcagag agcaccatct ccatccaata atccccatgc ttgcgcacca 120
 ctccccggcca catccccggc gaggaggagg aggaggagga ggggtgtgctt gatccggcgct 180
 cccggcttgtt tggtgggtgt ggggtggagg gggagggtatg ggagggggagg caccggaggc 240
 gggggcggttg gaccgcgcga tgagcttcgg cggcgccggc agcatcccg aggaggcgct 300
 gcacacctgtt ctggggtaacg tggacaccc gcgggacagg gaggcggtgt cgctcgtgtg 360
 cccggcgctgg caccgcacatcg acgcgcacac gcgaaagcac gtcaccgtgc cttctgtcta 420
 cccggcggtcg cccggcgacc tgctcgccgc gttcccgccg ctggagtcgc tcgcggtaa 480
 ggggaagccg cgcggccgcca tgcacggctt catcccgag gactggggcg cctacgcgcg 540
 cccctgggtc gccgagctcg cccgcgcgcg ctagtgcctc aaggcgcctcc acctgcgcgg 600
 catggtcgtc accgacgacg acctcgccgc gctcgtccgc gcccgcggcc acatgctgca 660
 ggagctcaag ctcgacaagt gctccggctt ctccaccgcac gctctccgccc tcgtcgcccc 720
 ctccctgcaga tcactgagaa cattattttt ggaggaatgc tcaattgtctg ataatggta 780
 tgaatgggtc cacgacccgt ctgtcaacaa tcctgttctg gagacattga acttccacat 840
 gaccgaactc acagtgggtgc cagctgaccc ggagcttctc gcaaagaagt gcaagtcaact 900
 aatttcattt aagatcactgt actgtgactt ttcaagattt attggatttt tccggatggc 960
 tgcatttcattt caagagttt cggggaggggc attcatttgcg caagggggagc tcactaagta 1020
 tggaaatgtt aaattccctt caagactgtt ctcccttagga cttacgtaca tggggacaaa 1080
 cgagatgccc attatcttcc ctttctctgc attactcaag aagctgact tcgagtacac 1140
 ttttctcacc actgaagatc actgccaact cattgcaaaa tgcgttcaact tactagttct 1200
 tgcgggtgagg aatgtgattt gagatagagg attaggggtt gttgcagaca catgcaagaa 1260
 gctacaaaaga ctcagagttt agcgaggaga tgatgatcca ggttgcgaag aagaacaagg 1320
 aggagtctt caagtccgggt tgacaactgt agccgttagga tgccgtgaaac tggaaatacat 1380
 agctgcctat gtgtctgata tcacaaatgg ggccttggag tctattgggat ctttctgca 1440
 aaatcttgc gacttcgtc ttgtctctact cgatagagaa gagaggataa cagatttgc 1500
 cttagacaat ggttccgtt cactgtctgag gggctgcacg aaacttcgga ggttgcct 1560
 atacttgaga ccagggggac tttcagatac aggcccttggc tatattggac agtacagtgg 1620
 aattatccaa tacatgttcc tggtaatgt tggggaaaca gatgtggtc tgatccgggt 1680
 tgcatttggg tttgtgagaacc tgcggaaact tgagcttgcg agttgttgcg tcaatgtgac 1740
 agctttagcc cgcgtatac ggatgtatgcc ttcccttggaa tacgtgtggg tacagggcta 1800
 caaggcttt aagactggc acgatctcat gtcatggcc aggccttctt ggaacataga 1860
 gtttacacct cccagttctg agaatgcggaa tgcgtatggaa gaagatggc aaccttgcgt 1920
 agatagtcaa gtcagatac ttgcataacta ctcccttgcg gggaaagggc cggactgccc 1980
 acgatctgtt gttcctttgtt atcctgcgtt actgttataa ccgtatgtt atctctctgc 2040
 ttcgttcttgc cctcttgcct ttttgggtt atatgttgcg atgtgttgcg tttatgggtc 2100
 tagaactcta gatggcttagc tgctatgtac sgtataataa tactggtagc tgagatgtac 2160
 tggaaataaagc acttcttattt cccactctaa aaaaaaaaaaaa aaaaactcgg gcacgagggg 2220
 gggcccggtt cccaaattcgc 2240

<210> 20
 <211> 597
 <212> PRT
 <213> Oryza sativa

<400> 20
 Met Gly Gly Glu Ala Pro Glu Ala Arg Arg Leu Asp Arg Ala Met Ser
 1 5 10 15

Phe Gly Gly Ala Gly Ser Ile Pro Glu Glu Ala Leu His Leu Val Leu
 20 25 30
 Gly Tyr Val Asp Asp Pro Arg Asp Arg Glu Ala Val Ser Leu Val Cys
 35 40 45
 Arg Arg Trp His Arg Ile Asp Ala Leu Thr Arg Lys His Val Thr Val
 50 55 60
 Pro Phe Cys Tyr Ala Ala Ser Pro Ala His Leu Leu Ala Arg Phe Pro
 65 70 75 80
 Arg Leu Glu Ser Leu Ala Val Lys Gly Lys Pro Arg Ala Ala Met Tyr
 85 90 95
 Gly Leu Ile Pro Glu Asp Trp Gly Ala Tyr Ala Arg Pro Trp Val Ala
 100 105 110
 Glu Leu Ala Ala Pro Leu Glu Cys Leu Lys Ala Leu His Leu Arg Arg
 115 120 125
 Met Val Val Thr Asp Asp Asp Leu Ala Ala Leu Val Arg Ala Arg Gly
 130 135 140
 His Met Leu Gln Glu Leu Lys Leu Asp Lys Cys Ser Gly Phe Ser Thr
 145 150 155 160
 Asp Ala Leu Arg Leu Val Ala Arg Ser Cys Arg Ser Leu Arg Thr Leu
 165 170 175
 Phe Leu Glu Glu Cys Ser Ile Ala Asp Asn Gly Thr Glu Trp Leu His
 180 185 190
 Asp Leu Ala Val Asn Asn Pro Val Leu Glu Thr Leu Asn Phe His Met
 195 200 205
 Thr Glu Leu Thr Val Val Pro Ala Asp Leu Glu Leu Leu Ala Lys Lys
 210 215 220
 Cys Lys Ser Leu Ile Ser Leu Lys Ile Ser Asp Cys Asp Phe Ser Asp
 225 230 235 240
 Leu Ile Gly Phe Phe Arg Met Ala Ala Ser Leu Gln Glu Phe Ala Gly
 245 250 255
 Gly Ala Phe Ile Glu Gln Gly Glu Leu Thr Lys Tyr Gly Asn Val Lys
 260 265 270
 Phe Pro Ser Arg Leu Cys Ser Leu Gly Leu Thr Tyr Met Gly Thr Asn
 275 280 285
 Glu Met Pro Ile Ile Phe Pro Phe Ser Ala Leu Leu Lys Lys Leu Asp
 290 295 300
 Leu Gln Tyr Thr Phe Leu Thr Thr Glu Asp His Cys Gln Leu Ile Ala
 305 310 315 320
 Lys Cys Pro Asn Leu Leu Val Leu Ala Val Arg Asn Val Ile Gly Asp
 325 330 335

Arg Gly Leu Gly Val Val Ala Asp Thr Cys Lys Lys Leu Gln Arg Leu
 340 345 350
 Arg Val Glu Arg Gly Asp Asp Asp Pro Gly Leu Gln Glu Glu Gln Gly
 355 360 365
 Gly Val Ser Gln Val Gly Leu Thr Thr Val Ala Val Gly Cys Arg Glu
 370 375 380
 Leu Glu Tyr Ile Ala Ala Tyr Val Ser Asp Ile Thr Asn Gly Ala Leu
 385 390 395 400
 Glu Ser Ile Gly Thr Phe Cys Lys Asn Leu Cys Asp Phe Arg Leu Val
 405 410 415
 Leu Leu Asp Arg Glu Glu Arg Ile Thr Asp Leu Pro Leu Asp Asn Gly
 420 425 430
 Val Arg Ala Leu Leu Arg Gly Cys Thr Lys Leu Arg Arg Phe Ala Leu
 435 440 445
 Tyr Leu Arg Pro Gly Gly Leu Ser Asp Thr Gly Leu Gly Tyr Ile Gly
 450 455 460
 Gln Tyr Ser Gly Ile Ile Gln Tyr Met Leu Leu Gly Asn Val Gly Glu
 465 470 475 480
 Thr Asp Asp Gly Leu Ile Arg Phe Ala Leu Gly Cys Glu Asn Leu Arg
 485 490 495
 Lys Leu Glu Leu Arg Ser Cys Cys Phe Ser Glu Gln Ala Leu Ala Arg
 500 505 510
 Ala Ile Arg Ser Met Pro Ser Leu Arg Tyr Val Trp Val Gln Gly Tyr
 515 520 525
 Lys Ala Ser Lys Thr Gly His Asp Leu Met Leu Met Ala Arg Pro Phe
 530 535 540
 Trp Asn Ile Glu Phe Thr Pro Pro Ser Ser Glu Asn Ala Asn Arg Met
 545 550 555 560
 Arg Glu Asp Gly Glu Pro Cys Val Asp Ser Gln Ala Gln Ile Leu Ala
 565 570 575
 Tyr Tyr Ser Leu Ala Gly Lys Arg Ser Asp Cys Pro Arg Ser Val Val
 580 585 590
 Pro Leu Tyr Pro Ala
 595
 <210> 21
 <211> 2288
 <212> DNA
 <213> Glycine max
 <400> 21
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 gggtgtatgt agctgttcct aggtatgataac ttgtgataac agaacggcgt ttgaaggcagt 120
 gacgtgttac atcagtgatcat cacatcacat cacgtaaata taggtataaa gctcggaaaa 180

agttttgtcg tttcacaccc atctgtttgg ccctaccatt tcctcactca tcatccccat 240
 aaccattcc ccttttgcctt cttgaaccaa aacctctgca ccttttcttt tcactctcag 300
 tctccgatcc aatatgacgg aggaacggaa cgtgcggaag acacgtgtgg tcgacgtgg 360
 cctcgactgc gtcatccctt acatcgacga ccccaaggac cgcgcgcg tttcccagg 420
 gtgtcgacgc tggtagcage tcgactcgct caccggcaag cacgtcacca tcgcgtctg 480
 ctacaccacc accccggctc gcctccgccc cgcctccctg cacctcgagt cgctcaagct 540
 caaggggcaag ccccgagccg caatgttcaa cttgataccg gaggattggg gcggacacgt 600
 cactccctgg gtcaaaagaga tttctcagta cttcgatttc ctcaagagcc tccacttccg 660
 ccgcattgatt gtcaaggatt ccgatcttca gaatctcgct cgtgaccggc gtcacgtgct 720
 tcacgctctc aagcttgaca agtgctccgg tttcaccacc gatggtctt tccatatcgg 780
 tcgctttgc aagagttaa gagtcttgg tttggaggaa agctcaattc ttgagaagga 840
 cgagaaatgg ctacacgac ttgctttgaa taatacagtt cttagagactc tcaattttta 900
 cttgacagac attgctgtt tgaagattga ggaccttigaa ctttttagcta aaaattgccc 960
 caacttagtg tctgtgaaac ttactgactg tgaaatactg gatcttgcgactt 1020
 gcatgcctct ggcgtgaaag agttttgtgg aggcacactac aacgaggaac cagaaagata 1080
 ctctgctata tcattaccag caaagtatg tcgattgggt ttaacatata ttgaaaagaa 1140
 ttagttgccc attgtgttca ttgttgcagc cgtactaaaa aaattggatc tccttatgc 1200
 aatgctagac acggaggatc attgtatgtt aatccaaagg tgcgttgcgactt 1260
 ttagacaagg aatgtatgg gagatagagg gtttagaggtt cttggcgtt gttgtaaagag 1320
 gctaaaaagg ctttagattt aagggggcga tgatgtcaaa ggaatggagg atgaagaagg 1380
 tactgtgtcc catagaggc taatagcctt gtcacaggc ttgttgcagac ttgaatacat 1440
 ggctgtttat gtgtctgata ttacaaatgc atctctggaa catattggaa ctcacttgc 1500
 gaacctctgtt gattttcgccc ttgtgttgcgatgaa gagaagataa ctgatttgc 1560
 acttgacaat ggggtgaggg ctctactgtag gggctgtgac aagctgagga gatttgcct 1620
 atatctcagg cgtggcgggt tgactgtatgtt aggccttggg tacattggac aatacagtcc 1680
 aaatgtgaga tggatgtcgc ttggatgtt gggggaggtt gatgcaggc ttgttgc 1740
 cgctaaagggg tgcgttgcgactt ttgcataactt tgaaatgaga ggggtttat ttgttgcgtt 1800
 acgtgcactt gctgtggctg caacacaatt gacttctctt aggtacttgtt ggggtgcaagg 1860
 ttatgttgcgatgttgcgactt gacgtgtatctt ttgttgcgatgttgcgactt 1920
 ttagttgatt ccttcttagaa aggtggctac gaataccat ccagatgaga ctgttagttgt 1980
 tgacatcctt gctcatattt ttgcataattt ttctcttgcgactt gggcagagat cagatttcc 2040
 agatactgtt gtcgttgcgactt gacactgccc atgcgttgcgactt accttagagggc cagagctgtg 2100
 tatataatacc agttttttttt ttgttgcgactt ctcccttgcgactt atatgttgcgactt tctatgttcc 2160
 tgctcttgcgactt ttgttgcgactt ttgttgcgactt ttgttgcgactt ttgttgcgactt 2220
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<210> 22

<211> 606

<212> PRT

<213> Glycine max

<400> 22

Thr	Lys	Thr	Ser	Ala	Pro	Phe	Leu	Phe	Thr	Leu	Ser	Leu	Arg	Ser	Asn
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Met	Thr	Glu	Glu	Arg	Asn	Val	Arg	Lys	Thr	Arg	Val	Val	Asp	Val	Val
20									25					30	

Leu	Asp	Cys	Val	Ile	Pro	Tyr	Ile	Asp	Asp	Pro	Lys	Asp	Arg	Asp	Ala
35								40					45		

Val	Ser	Gln	Val	Cys	Arg	Arg	Trp	Tyr	Glu	Leu	Asp	Ser	Leu	Thr	Arg
50								55					60		

Lys	His	Val	Thr	Ile	Ala	Leu	Cys	Tyr	Thr	Thr	Pro	Ala	Arg	Leu	
65								70					75		80

Arg	Arg	Arg	Phe	Pro	His	Leu	Glu	Ser	Leu	Lys	Leu	Lys	Gly	Lys	Pro
85									90					95	

Arg Ala Ala Met Phe Asn Leu Ile Pro Glu Asp Trp Gly Gly His Val
 100 105 110
 Thr Pro Trp Val Lys Glu Ile Ser Gln Tyr Phe Asp Cys Leu Lys Ser
 115 120 125
 Leu His Phe Arg Arg Met Ile Val Lys Asp Ser Asp Leu Gln Asn Leu
 130 135 140
 Ala Arg Asp Arg Gly His Val Leu His Ala Leu Lys Leu Asp Lys Cys
 145 150 155 160
 Ser Gly Phe Thr Thr Asp Gly Leu Phe His Ile Gly Arg Phe Cys Lys
 165 170 175
 Ser Leu Arg Val Leu Phe Leu Glu Glu Ser Ser Ile Leu Glu Lys Asp
 180 185 190
 Gly Glu Trp Leu His Glu Leu Ala Leu Asn Asn Thr Val Leu Glu Thr
 195 200 205
 Leu Asn Phe Tyr Leu Thr Asp Ile Ala Val Val Lys Ile Glu Asp Leu
 210 215 220
 Glu Leu Leu Ala Lys Asn Cys Pro Asn Leu Val Ser Val Lys Leu Thr
 225 230 235 240
 Asp Cys Glu Ile Leu Asp Leu Val Asn Phe Phe Lys His Ala Ser Ala
 245 250 255
 Leu Glu Glu Phe Cys Gly Gly Thr Tyr Asn Glu Glu Pro Glu Arg Tyr
 260 265 270
 Ser Ala Ile Ser Leu Pro Ala Lys Leu Cys Arg Leu Gly Leu Thr Tyr
 275 280 285
 Ile Gly Lys Asn Glu Leu Pro Ile Val Phe Met Phe Ala Ala Val Leu
 290 295 300
 Lys Lys Leu Asp Leu Leu Tyr Ala Met Leu Asp Thr Glu Asp His Cys
 305 310 315 320
 Met Leu Ile Gln Arg Cys Pro Asn Leu Glu Val Leu Glu Thr Arg Asn
 325 330 335
 Val Ile Gly Asp Arg Gly Leu Glu Val Leu Gly Arg Cys Cys Lys Arg
 340 345 350
 Leu Lys Arg Leu Arg Ile Glu Arg Gly Asp Asp Asp Gln Gly Met Glu
 355 360 365
 Asp Glu Glu Gly Thr Val Ser His Arg Gly Leu Ile Ala Leu Ser Gln
 370 375 380
 Gly Cys Ser Glu Leu Glu Tyr Met Ala Val Tyr Val Ser Asp Ile Thr
 385 390 395 400
 Asn Ala Ser Leu Glu His Ile Gly Thr His Leu Lys Asn Leu Cys Asp
 405 410 415

Phe Arg Leu Val Leu Leu Asp His Glu Glu Lys Ile Thr Asp Leu Pro
 420 425 430
 Leu Asp Asn Gly Val Arg Ala Leu Leu Arg Gly Cys Asp Lys Leu Arg
 435 440 445
 Arg Phe Ala Leu Tyr Leu Arg Arg Gly Gly Leu Thr Asp Val Gly Leu
 450 455 460
 Gly Tyr Ile Gly Gln Tyr Ser Pro Asn Val Arg Trp Met Leu Leu Gly
 465 470 475 480
 Tyr Val Gly Glu Ser Asp Ala Gly Leu Leu Glu Phe Ala Lys Gly Cys
 485 490 495
 Pro Ser Leu Gln Lys Leu Glu Met Arg Gly Cys Leu Phe Phe Ser Glu
 500 505 510
 Arg Ala Leu Ala Val Ala Ala Thr Gln Leu Thr Ser Leu Arg Tyr Leu
 515 520 525
 Trp Val Gln Gly Tyr Gly Val Ser Pro Ser Gly Arg Asp Leu Leu Val
 530 535 540
 Met Ala Arg Pro Phe Trp Asn Ile Glu Leu Ile Pro Ser Arg Lys Val
 545 550 555 560
 Ala Thr Asn Thr Asn Pro Asp Glu Thr Val Val Val Glu His Pro Ala
 565 570 575
 His Ile Leu Ala Tyr Tyr Ser Leu Ala Gly Gln Arg Ser Asp Phe Pro
 580 585 590
 Asp Thr Val Val Pro Leu Asp Thr Ala Thr Cys Val Asp Thr
 595 600 605
 <210> 23
 <211> 577
 <212> DNA
 <213> Triticum aestivum
 <220>
 <221> unsure
 <222> (296)
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 <221> unsure
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<220>
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 <222> (549)

<400> 23
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 agcctgccga tctggagctt cttgcaagga actgtaaatc attgatttct ctgaagatga 180
 gtgactgcga tctttcggat ttgattgggtt ttctccaaac ctccaaggca ctgcaagaat 240
 ccgctggag gcgctttttt cgaagtcgga gagtacacca agtacgaaaa ggcaantccc 300
 acctagctat gctcctgggg gggcctacct tcatgggtaa aaacgaatcc cgttacttcc 360
 cgtatcccgcg tcgcttaaaa actggacctg catacacttc ctcacaacng aaatnacgtc 420
 acttaacgct aaagcccaac ctacgggtct cnagggggc cggtaccaat cgccctatat 480
 gatcctatac cgcgncacgg gcgcccttta cactctgacg ggaaactggg taccactaac 540
 cctganaanc cttccactg gtatacaaag gccgacg 577

<210> 24
 <211> 159
 <212> PRT
 <213> Triticum aestivum

<220>
 <221> UNSURE
 <222> (98)

<220>
 <221> UNSURE
 <222> (136)

<220>
 <221> UNSURE
 <222> (138)

<400> 24
 Thr Leu Phe Leu Glu Glu Cys Ile Ile Ala Asp Glu Gly Ser Glu Trp
 1 5 10 15

Leu His Glu Leu Ala Val Asn Asn Ser Val Leu Val Thr Leu Asn Phe
 20 25 30

Tyr Met Thr Glu Leu Lys Val Glu Pro Ala Asp Leu Glu Leu Leu Ala
 35 40 45

Arg Asn Cys Lys Ser Leu Ile Ser Leu Lys Met Ser Asp Cys Asp Leu
 50 55 60

Ser Asp Leu Ile Gly Phe Leu Gln Thr Ser Lys Ala Leu Gln Glu Ser
 65 70 75 80

Ala Gly Arg Arg Phe Phe Arg Ser Arg Arg Val His Gln Val Arg Lys
 85 90 95

Gly Xaa Ser His Leu Ala Met Leu Leu Gly Gly Pro Thr Phe Met Gly
100 105 110

Lys Asn Glu Ser Arg Tyr Phe Pro Tyr Pro Arg Arg Leu Lys Thr Gly
115 120 125

Pro Ala Tyr Thr Ser Ser Gln Xaa Lys Xaa Arg His Leu Thr Leu Lys
130 135 140

Pro Asn Leu Arg Val Ser Arg Gly Ala Gly Thr Asn Arg Pro Ile
145 150 155

<210> 25
<211> 486
<212> DNA
<213> *Triticum aestivum*

<220>
<221> unsure
<222> (197)

<220>
<221> unsure
<222> (275)

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<400> 25
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 gccggcgcgg agccttaggc gggatgggc ggggaggccc cggagccgcg gcggctgagc 120
 cgcgcgtca gcctggacgg cggcggcgctc ccggaggagg cgctgcacct ggtgctcgcc 180
 tacgtggacg acccgcnca cccgcgaggcg gcctcgctgg cgtgccgccc ctggcaccac 240
 atcgacgcgc tcacgcggaa gcacgtcacc gtgcncttct gctacgceng tgcctccengc 300
 ggcgcgtctcc ggcgcgttcc cgcgcgtcga gtcnctcgcc gtcgaangca agccgcgc 360
 gccatgtacg gtcatcccc gacgactggg ggcgcctacnc ccgggcctg cgtccctgag 420
 ctcgcgcgc cgcgcattg nctcaaggcg gtcacacctt gcncncaan gtcgtcaccg 480
 acgaca 486

<210> 26
 <211> 134
 <212> PRT
 <213> *Triticum aestivum*

<220>
 <221> UNSURE
 <222> (38)

<220>
 <221> UNSURE
 <222> (64)

<220>
 <221> UNSURE
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<220>
 <221> UNSURE
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<220>
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<220>
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<220>
 <221> UNSURE
 <222> (119)

<220>
 <221> UNSURE
 <222> (127)...(128)...(129)

<400> 26
 Met Gly Gly Glu Ala Pro Glu Pro Arg Arg Leu Ser Arg Ala Leu Ser
 1 5 10 15

Leu Asp Gly Gly Val Pro Glu Glu Ala Leu His Leu Val Leu Gly
 20 25 30

Tyr Val Asp Asp Pro Xaa Asp Arg Glu Ala Ala Ser Leu Ala Cys Arg
 35 40 45

Arg Trp His His Ile Asp Ala Leu Thr Arg Lys His Val Thr Val Xaa
50 55 60

Phe Cys Tyr Ala Xaa Val Pro Xaa Ala Pro Ala Arg Ala Leu Pro Ala
65 70 75 80

Pro Arg Val Xaa Arg Gly Gln Xaa Gln Ala Arg Ala Ala Met Tyr Gly
85 90 95

Ser Ser Pro Thr Thr Gly Ala Pro Thr Pro Gly Pro Cys Val Pro Glu
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Leu Ala Ala Pro Leu Asp Xaa Leu Lys Ala Ala Gln Pro Cys Xaa Xaa
115 120 125

Xaa Ser Ser Pro Thr Thr
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<210> 27

<211> 1074

<212> DNA

<213> Triticum aestivum

<400> 27

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caacggggtt cgggcttgc tgagagggtt caccaaactc cggagggttg catttatgt 240
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ccgctacatg ttgcttggga atgcgggggg gtctgatgtt ggactgctgg catttgacag 360
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<210> 28

<211> 221

<212> PRT

<213> Triticum aestivum

<400> 28

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20 25 30

Ile Gly Ala Phe Ser Lys Asn Leu Asn Asp Phe Arg Leu Val Leu Leu
35 40 45

Asp Arg Glu Val His Ile Thr Glu Leu Pro Leu Asp Asn Gly Val Arg
50 55 60

Ala Leu Leu Arg Gly Cys Thr Lys Leu Arg Arg Phe Ala Phe Tyr Val
 65 70 75 80

Arg Pro Gly Ala Leu Ser Asp Ile Gly Leu Ser Tyr Val Gly Glu Phe
 85 90 95

Ser Lys Thr Val Arg Tyr Met Leu Leu Gly Asn Ala Gly Gly Ser Asp
 100 105 110

Asp Gly Leu Leu Ala Phe Ala Arg Gly Cys Pro Ser Leu Gln Lys Leu
 115 120 125

Glu Leu Arg Ser Cys Cys Phe Ser Glu Arg Ala Leu Ala Val Ala Ala
 130 135 140

Leu Gln Leu Lys Ser Leu Arg Tyr Leu Trp Val Gln Gly Tyr Lys Ala
 145 150 155 160

Ser Pro Thr Gly Thr Asp Leu Met Ala Met Val Arg Pro Phe Trp Asn
 165 170 175

Ile Glu Phe Ile Ala Pro Asn Gln Asp Glu Pro Cys Pro Glu Gly Gln
 180 185 190

Ala Gln Ile Leu Ala Tyr Tyr Ser Leu Ala Gly Ala Arg Thr Asp Cys
 195 200 205

Pro Gln Ser Val Ile Pro Leu His Pro Ser Val Gly Ser
 210 215 220

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 <212> DNA
 <213> Oryza sativa

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 <211> 485
 <212> PRT
 <213> Oryza sativa

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 35 40 45
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 50 55 60
 Thr Glu Pro Ser Thr Ser Ser Ala Asp Glu Lys Phe Val Trp Arg Asp
 65 70 75 80
 His Trp Tyr Pro Val Ser Leu Val Glu Asp Leu Asp Pro Ser Val Pro
 85 90 95
 Thr Pro Phe Gln Leu Leu Asn Arg Asp Leu Val Ile Trp Lys Asp Pro
 100 105 110
 Lys Ser Gly Glu Trp Val Ala Leu Asp Asp Arg Cys Pro His Arg Leu
 115 120 125
 Ala Pro Leu Ser Glu Gly Arg Ile Asp Glu Thr Gly Cys Leu Gln Cys
 130 135 140
 Ser Tyr His Gly Trp Ser Phe Asp Gly Ser Gly Ala Cys Thr Arg Ile
 145 150 155 160
 Pro Gln Ala Ala Pro Glu Gly Pro Glu Ala Lys Ala Val Arg Ser Pro
 165 170 175
 Lys Ala Cys Ala Ile Lys Phe Pro Thr Leu Val Ser Gln Gly Leu Leu
 180 185 190

Phe Val Trp Pro Asp Glu Asn Gly Trp Glu Lys Ala Thr Ala Thr Lys
 195 200 205
 Pro Pro Met Leu Pro Lys Glu Phe Glu Asp Pro Ala Phe Ser Thr Val
 210 215 220
 Thr Ile Gln Arg Asp Leu Tyr Tyr Gly Tyr Asp Thr Leu Met Glu Asn
 225 230 235 240
 Val Ser Asp Pro Ser His Ile Glu Phe Ala Xaa His Lys Val Thr Gly
 245 250 255
 Arg Arg Asp Arg Ala Arg Pro Leu Pro Phe Lys Met Glu Ser Ser Gly
 260 265 270
 Ala Trp Gly Tyr Ser Gly Ser Asn Ser Gly Asn Pro Arg Ile Ser Ala
 275 280 285
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 305 310 315 320
 Phe Asn Ile Pro Met Ala Pro Gly Lys Thr Arg Ser Ile Val Cys Ser
 325 330 335
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 355 360 365
 Gly Asp Met Ile Val Leu Gln Gly Gln Glu Lys Ile Phe Leu Ser Ala
 370 375 380
 Ser Lys Glu Ser Ser Ala Asp Ile Asn Gln Gln Tyr Thr Lys Ile Thr
 385 390 395 400
 Phe Thr Pro Thr Gln Ala Asp Arg Phe Val Leu Ala Phe Arg Ala Trp
 405 410 415
 Leu Arg Lys Phe Gly Asn Ser Gln Pro Asp Trp Phe Gly Asn Pro Ser
 420 425 430
 Gln Glu Val Leu Pro Ser Thr Val Leu Ser Lys Arg Glu Met Leu Asp
 435 440 445
 Arg Tyr Glu Gln His Thr Leu Lys Cys Ser Ser Cys Lys Gly Ala Tyr
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 Val Leu Leu Leu Leu
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 <210> 31
 <211> 1930

<212> DNA

<213> Glycine max

<400> 31

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<210> 32

<211> 563

<212> PRT

<213> Glycine max

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20														

25

30

Ser	Asn	Arg	Asn	Ser	Gln	Phe	Leu	Thr	Lys	Gln	Thr	Arg	Pro	Arg	Ser
35															

40

45

Arg	Arg	Asn	Leu	Ser	Leu	Thr	Pro	Ala	Arg	Val	Ala	Ala	Pro	Pro	Ser
50															

55

60

Thr	Val	Glu	Ala	Asp	Arg	Leu	Tyr	Pro	Glu	Ala	Glu	Asn	Asn	Glu	Thr
65															

70

75

80

Glu	Glu	Glu	Phe	Ser	Asp	Glu	Ser	Ser	Ser	Lys	Phe	Thr	Trp	Arg	Asp
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100						105							110		
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115						120							125		
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130						135							140		
Ala	Pro	Leu	Ser	Glu	Gly	Arg	Ile	Asp	Glu	Asp	Gly	Lys	Leu	Gln	Cys
145						150						155			160
Ser	Tyr	His	Gly	Trp	Ser	Phe	Asp	Gly	Cys	Gly	Ser	Cys	Val	Lys	Ile
165						170							175		
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180						185							190		
Lys	Ala	Cys	Ala	Thr	Arg	Phe	Pro	Thr	Leu	Val	Ser	Gln	Gly	Leu	Leu
195						200							205		
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210						215							220		
Pro	Pro	Met	Phe	Pro	Asp	Asp	Phe	Asp	Lys	Pro	Glu	Phe	Pro	Thr	Val
225						230							235		
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245						250							255		
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260						265							270		
Arg	Arg	Asp	Arg	Ala	Lys	Pro	Leu	Pro	Phe	Lys	Met	Asp	Ser	Arg	Gly
275						280							285		
Ser	Trp	Gly	Phe	Ser	Gly	Ala	Asn	Glu	Gly	Asn	Pro	Gln	Ile	Ser	Ala
290						295							300		
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305						310							315		
Lys	Leu	Pro	Val	Val	Gly	Asp	Gln	Lys	Trp	Val	Val	Trp	Ile	Cys	Ser
325						330							335		
Phe	Asn	Val	Pro	Met	Ala	Pro	Gly	Lys	Thr	Arg	Ser	Ile	Val	Cys	Ser
340						345							350		
Ala	Arg	Asn	Phe	Phe	Gln	Phe	Ser	Val	Pro	Gly	Pro	Ala	Trp	Trp	Gln
355						360							365		
Val	Asn	Val	Ile	Leu	Leu	Phe	Ala	Phe	Asn	Phe	Lys	Gln	Cys	Ile	His
370						375							380		
Val	Thr	Gln	Val	Val	Pro	Arg	Trp	Tyr	Glu	His	Trp	Thr	Ser	Asn	Lys
385						390							395		
													400		

Val Tyr Asp Gly Asp Met Ile Val Leu Gln Gly Gln Glu Lys Ile Phe
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 Leu Ser Glu Thr Lys Glu Gly Gly Asp Ile Asn Lys Gln Tyr Thr Asn
 420 425 430
 Ile Thr Phe Thr Pro Thr Gln Ala Asp Arg Phe Val Leu Ala Phe Arg
 435 440 445
 Asn Trp Leu Arg Arg His Gly Asn Gly Gln Pro Glu Trp Phe Gly Asn
 450 455 460
 Ser Ser Asp Gln Pro Leu Pro Ser Thr Val Leu Ser Lys Arg Gln Met
 465 470 475 480
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 485 490 495
 Ala Tyr Glu Gly Phe Gln Thr Trp Gln Lys Val Leu Ile Gly Ala Thr
 500 505 510
 Val Val Phe Cys Ala Thr Ser Gly Ile Pro Ser Asp Phe Gln Leu Arg
 515 520 525
 Val Leu Leu Ala Gly Leu Ala Val Val Ser Ala Ala Ile Ala Phe Ala
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Glu Ile Asp

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 <213> *Triticum aestivum*

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Val Pro Arg Arg Arg Ala Arg Arg His Arg Asn Gly Ala Ala Arg Met
35 40 45

Leu Pro Ala Ser Ala Val Ala Ser Glu Ser Pro Trp Thr Xaa Gln Glu
50 55 60

Pro Pro Ser Gly Glu Xaa Glu Glu Arg Phe Asp Trp Leu Asp Gln Trp
65 70 75 80

Tyr Pro Phe Ala Pro Val Glu Asp Leu Asp Pro Ala Arg Pro Arg Gln
85 90 95

Met Val Leu Gly Ser Ala Trp Xaa Leu Val Gln Arg Gly Ala Gly Glu
100 105 110

Trp Arg Cys Ser His Arg Ala Arg Thr Pro Gly Xaa Xaa Arg Gly Arg
 115 120 125

Ile Thr Lys Gly Gly Gln Ser Leu His Gly Trp Xaa His Xaa Ala Gly
 130 135 140

<210> 35
 <211> 1864

<212> DNA

<213> Triticum aestivum

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 cgggtccgggt gctctggtca ggcgcgcctt ggcctatgtc ttctacgacc gccagaagca 1680
 tttcgtgttt gtggactacg tgcaacgtcga cattgattga ttagggagat aaacatttagt 1740
 tattttgtg aggatctggt gtgggtgtggt gtggagacat cccacgatca atcatgtgca 1800
 taacctagcc aaggagtaca tatagcttc agtgggtaca ttagattggc ccagtagttt 1860
 gttt 1864

<210> 36

<211> 487

<212> PRT

<213> Triticum aestivum

<400> 36

Leu Arg Val Ala Ala Pro Thr Ser Val Pro Gly Glu Ala Glu Arg Ala
 1 5 10 15

Glu Glu Pro Ser Thr Ser Thr Ser Pro Glu Ser Ser Gly Glu
 20 25 30

Lys Phe Val Trp Arg Asp His Trp Tyr Pro Val Ser Leu Val Glu Asp
 35 40 45

Leu Asp Pro Arg Val Pro Thr Pro Phe Gln Leu Leu Asn Arg Asp Leu
 50 55 60

Val Ile Trp Asn Asp Pro Asn Ser Gly Asp Trp Val Ala Leu Asp Asp
 65 70 75 80

Arg Cys Pro His Arg Leu Ala Pro Leu Ser Glu Gly Arg Ile Asp Glu
 85 90 95

Thr Gly Gly Leu Gln Cys Ser Tyr His Gly Trp Ser Phe Asp Gly Ser
 100 105 110

Gly Ala Cys Thr Arg Ile Pro Gln Ala Ala Pro Glu Gly Pro Glu Ala
 115 120 125

Arg Ala Val Arg Ser Pro Arg Ala Cys Ala Thr Lys Phe Pro Thr Leu
 130 135 140

Leu Ser Gln Gly Leu Leu Phe Val Trp Pro Asp Glu Asn Gly Trp Asp
 145 150 155 160

Lys Ala Lys Ala Thr Lys Pro Pro Met Leu Pro Lys Glu Phe Asp Asp
 165 170 175

Pro Ala Phe Ser Thr Val Thr Ile Gln Arg Asp Leu Phe Tyr Gly Tyr
 180 185 190

Asp Thr Leu Met Glu Asn Val Ser Asp Pro Ser His Ile Glu Phe Ala
 195 200 205

His His Lys Val Thr Gly Arg Arg Asp Arg Ala Lys Pro Leu Pro Phe
 210 215 220

Lys Met Glu Ser Ser Gly Ala Trp Gly Tyr Ser Gly Ala Asn Thr Gly
 225 230 235 240

Asn Pro Arg Ile Thr Ala Thr Phe Glu Ala Pro Cys Tyr Ala Leu Asn
 245 250 255

Lys Ile Glu Ile Asp Thr Lys Leu Pro Ile Val Gly Asp Gln Lys Trp
 260 265 270

Val Ile Trp Ile Cys Ser Phe Asn Ile Pro Met Ala Pro Gly Lys Thr
 275 280 285

Arg Ser Ile Val Cys Ser Ala Arg Asn Phe Phe Gln Phe Thr Met Pro
 290 295 300

Gly Lys Ala Trp Trp Gln Phe Val Pro Arg Trp Tyr Glu His Trp Thr
 305 310 315 320

Ser Asn Leu Val Tyr Asp Gly Asp Met Ile Val Leu Gln Gly Gln Glu
 325 330 335

Lys Val Phe Leu Ser Ala Ser Lys Glu Ser Ser Ala Asp Val Asn Gln
 340 345 350

Gln Tyr Thr Lys Leu Thr Phe Thr Pro Thr Gln Ala Asp Arg Phe Val
 355 360 365

Leu Ala Phe Arg Ala Trp Leu Arg Lys Phe Gly Asn Ser Gln Pro Asp
 370 375 380
 Trp Tyr Gly Ser Pro Ser Gln Asp Ala Leu Pro Ser Thr Val Leu Ser
 385 390 395 400
 Lys Arg Glu Met Leu Asp Arg Tyr Glu Gln His Thr Leu Lys Cys Ser
 405 410 415
 Ser Cys Arg Gly Ala His Lys Ala Phe Gln Thr Leu Gln Lys Val Phe
 420 425 430
 Met Gly Ala Thr Val Val Phe Gly Ala Thr Ser Gly Ile Pro Ala Asp
 435 440 445
 Val Gln Leu Arg Ile Leu Leu Gly Ala Gly Ala Leu Val Ser Ala Ala
 450 455 460
 Leu Ala Tyr Val Phe Tyr Asp Arg Gln Lys His Phe Val Phe Val Asp
 465 470 475 480
 Tyr Val His Ala Asp Ile Asp
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<210> 37
 <211> 592
 <212> PRT
 <213> *Arabidopsis thaliana*

<400> 37
 Met Glu Asp Pro Asp Ile Lys Arg Cys Lys Leu Ser Cys Val Ala Thr
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 Val Asp Asp Val Ile Glu Gln Val Met Thr Tyr Ile Thr Asp Pro Lys
 20 25 30
 Asp Arg Asp Ser Ala Ser Leu Val Cys Arg Arg Trp Phe Lys Ile Asp
 35 40 45
 Ser Glu Thr Arg Glu His Val Thr Met Ala Leu Cys Tyr Thr Ala Thr
 50 55 60
 Pro Asp Arg Leu Ser Arg Arg Phe Pro Asn Leu Arg Ser Leu Lys Leu
 65 70 75 80
 Lys Gly Lys Pro Arg Ala Ala Met Phe Asn Leu Ile Pro Glu Asn Trp
 85 90 95
 Gly Gly Tyr Val Thr Pro Trp Val Thr Glu Ile Ser Asn Asn Leu Arg
 100 105 110
 Gln Leu Lys Ser Val His Phe Arg Arg Met Ile Val Ser Asp Leu Asp
 115 120 125
 Leu Asp Arg Leu Ala Lys Ala Arg Ala Asp Asp Leu Glu Thr Leu Lys
 130 135 140
 Leu Asp Lys Cys Ser Gly Phe Thr Thr Asp Gly Leu Leu Ser Ile Val
 145 150 155 160

Thr His Cys Arg Lys Ile Lys Thr Leu Leu Met Glu Glu Ser Ser Phe
 165 170 175
 Ser Glu Lys Asp Gly Lys Trp Leu His Glu Leu Ala Gln His Asn Thr
 180 185 190
 Ser Leu Glu Val Leu Asn Phe Tyr Met Thr Glu Phe Ala Lys Ile Ser
 195 200 205
 Pro Lys Asp Leu Glu Thr Ile Ala Arg Asn Cys Arg Ser Leu Val Ser
 210 215 220
 Val Lys Val Gly Asp Phe Glu Ile Leu Glu Leu Val Gly Phe Phe Lys
 225 230 235 240
 Ala Ala Ala Asn Leu Glu Glu Phe Cys Gly Gly Ser Leu Asn Glu Asp
 245 250 255
 Ile Gly Met Pro Glu Lys Tyr Met Asn Leu Val Phe Pro Arg Lys Leu
 260 265 270
 Cys Arg Leu Gly Leu Ser Tyr Met Gly Pro Asn Glu Met Pro Ile Leu
 275 280 285
 Phe Pro Phe Ala Ala Gln Ile Arg Lys Leu Asp Leu Leu Tyr Ala Leu
 290 295 300
 Leu Glu Thr Glu Asp His Cys Thr Leu Ile Gln Lys Cys Pro Asn Leu
 305 310 315 320
 Glu Val Leu Glu Thr Arg Asn Val Ile Gly Asp Arg Gly Leu Glu Val
 325 330 335
 Leu Ala Gln Tyr Cys Lys Gln Leu Lys Arg Leu Arg Ile Glu Arg Gly
 340 345 350
 Ala Asp Glu Gln Gly Met Glu Asp Glu Glu Gly Leu Val Ser Gln Arg
 355 360 365
 Gly Leu Ile Ala Leu Ala Gln Gly Cys Gln Glu Leu Glu Tyr Met Ala
 370 375 380
 Val Tyr Val Ser Asp Ile Thr Asn Glu Ser Leu Glu Ser Ile Gly Thr
 385 390 395 400
 Tyr Leu Lys Asn Leu Cys Asp Phe Arg Leu Val Leu Asp Arg Glu
 405 410 415
 Glu Arg Ile Thr Asp Leu Pro Leu Asp Asn Gly Val Arg Ser Leu Leu
 420 425 430
 Ile Gly Cys Lys Lys Leu Arg Arg Phe Ala Phe Tyr Leu Arg Gln Gly
 435 440 445
 Gly Leu Thr Asp Leu Gly Leu Ser Tyr Ile Gly Gln Tyr Ser Pro Asn
 450 455 460
 Val Arg Trp Met Leu Leu Gly Tyr Val Gly Glu Ser Asp Glu Gly Leu
 465 470 475 480

Met Glu Phe Ser Arg Gly Cys Pro Asn Leu Gln Lys Leu Glu Met Arg
 485 490 495
 Gly Cys Cys Phe Ser Glu Arg Ala Ile Ala Ala Ala Val Thr Lys Leu
 500 505 510
 Pro Ser Leu Arg Tyr Leu Trp Val Gln Gly Tyr Arg Ala Ser Met Thr
 515 520 525
 Gly Gln Asp Leu Met Gln Met Ala Arg Pro Tyr Trp Asn Ile Glu Leu
 530 535 540
 Ile Pro Ser Arg Arg Val Pro Glu Val Asn Gln Gln Gly Glu Ile Arg
 545 550 555 560
 Glu Met Glu His Pro Ala His Ile Leu Ala Tyr Tyr Ser Leu Ala Gly
 565 570 575
 Gln Arg Thr Asp Cys Pro Thr Thr Val Arg Val Leu Lys Glu Pro Ile
 580 585 590
 <210> 38
 <211> 520
 <212> PRT
 <213> Zea mays
 <400> 38
 Met Arg Ala Thr Ile Pro Ala Leu Ser Leu Leu Val Thr Pro Arg Leu
 1 5 10 15
 Pro Ser Leu Ala Val Pro Leu Ala Gly Gly Arg Leu Arg Glu Gly Gly
 20 25 30
 Arg Ser Arg Thr Arg Leu Arg Val Ala Ala Pro Thr Ser Val Pro Gly
 35 40 45
 Glu Ala Ala Glu Gln Ala Glu Pro Ser Thr Ser Ala Pro Glu Ser Gly
 50 55 60
 Glu Lys Phe Ser Trp Arg Asp His Trp Tyr Pro Val Ser Leu Val Glu
 65 70 75 80
 Asp Leu Asp Pro Ser Arg Pro Thr Pro Phe Gln Leu Leu Asn Arg Asp
 85 90 95
 Leu Val Ile Trp Lys Glu Pro Lys Ser Gly Glu Trp Val Ala Leu Asp
 100 105 110
 Asp Arg Cys Pro His Arg Leu Ala Pro Leu Ser Glu Gly Arg Ile Asp
 115 120 125
 Glu Thr Gly Cys Leu Gln Cys Ser Tyr His Gly Trp Ser Phe Asp Gly
 130 135 140
 Ser Gly Ala Cys Thr Lys Ile Pro Gln Ala Met Pro Glu Gly Pro Glu
 145 150 155 160
 Ala Arg Ala Val Arg Ser Pro Lys Ala Cys Ala Ile Lys Phe Pro Thr
 165 170 175

Leu Val Ser Gln Gly Leu Leu Phe Val Trp Pro Asp Glu Asn Gly Trp
 180 185 190
 Glu Lys Ala Ala Ala Thr Lys Pro Pro Met Leu Pro Lys Glu Phe Glu
 195 200 205
 Asp Pro Ala Phe Ser Thr Val Thr Ile Gln Arg Asp Leu Phe Tyr Gly
 210 215 220
 Tyr Asp Thr Leu Met Glu Asn Val Ser Asp Pro Ser His Ile Glu Phe
 225 230 235 240
 Ala His His Lys Val Thr Gly Arg Arg Asp Arg Ala Arg Pro Leu Thr
 245 250 255
 Phe Arg Met Glu Ser Ser Gly Ala Trp Gly Tyr Ser Gly Ala Asn Ser
 260 265 270
 Gly Asn Pro Arg Ile Thr Ala Thr Phe Glu Ala Pro Cys Tyr Ala Leu
 275 280 285
 Asn Lys Ile Glu Ile Asp Thr Lys Leu Pro Ile Phe Gly Asp Gln Lys
 290 295 300
 Trp Val Ile Trp Ile Cys Ser Phe Asn Ile Pro Met Ala Pro Gly Lys
 305 310 315 320
 Thr Arg Ser Ile Val Cys Ser Ala Arg Asn Phe Phe Gln Phe Thr Met
 325 330 335
 Pro Gly Lys Ala Trp Trp Gln Leu Val Pro Arg Trp Tyr Glu His Trp
 340 345 350
 Thr Ser Asn Leu Val Tyr Asp Gly Asp Met Ile Val Leu Gln Gly Gln
 355 360 365
 Glu Lys Ile Phe Leu Ala Ala Thr Lys Glu Ser Ser Thr Asp Ile Asn
 370 375 380
 Gln Gln Tyr Thr Lys Ile Thr Phe Thr Pro Thr Gln Ala Asp Arg Phe
 385 390 395 400
 Val Leu Ala Cys Arg Thr Trp Leu Arg Lys Phe Gly Asn Ser Gln Pro
 405 410 415
 Glu Trp Phe Gly Asn Pro Thr Gln Glu Ala Leu Pro Ser Thr Val Leu
 420 425 430
 Ser Lys Arg Glu Met Leu Asp Arg Tyr Glu Gln Leu Ser Leu Lys Cys
 435 440 445
 Ser Ser Cys Lys Gly Ala Tyr Asn Ala Phe Gln Asn Leu Gln Lys Val
 450 455 460
 Phe Met Gly Ala Thr Val Val Cys Cys Ala Ala Ala Gly Ile Pro Pro
 465 470 475 480
 Asp Val Gln Leu Arg Leu Leu Ile Gly Ala Ala Ala Leu Val Ser Ala
 485 490 495

Ala Ile Ala Tyr Ala Phe His Glu Leu Gln Lys Asn Phe Val Phe Val
500 505 510

Asp Tyr Val His Ala Asp Ile Asp
515 520